

# JARLTECH

## MAIN CATALOGUE

### INT#2

**DATALOGIC**  
THE VISION IS YOURS

**Honeywell**

**MOTOROLA SOLUTIONS**

**Getac**

**METAPACE**

**EPSON**  
EXCEED YOUR VISION

**CITIZEN**  
Micro HumanTech

**ZEBRA**  
TECHNOLOGIES  
SEE MORE. DO MORE.

**Intermec**  
by Honeywell

**GLANCE IRON**

**Colormetrics**

**elo** TOUCH  
SOLUTIONS

**Panasonic**  
ideas for life

**iivama**

**PrehKeyTec**

**Addi<sup>3</sup>mat**

**IDENTIV**

**PROMAG™**

**ratiotec®**  
We support retail



**For Resellers only**



## NEW IN THIS ISSUE

### Datalogic

- QuickScan I QM & QBT 2400: Powerful and mobile
- PowerScan PM & PBT 9500: Mobile 2D industrial scanners
- Elf Healthcare: Robust PDA for the healthcare sector
- Memor X3: Mobile computer with pocket-sized housing

### Honeywell

- Granit 1280i: Highly robust industrial scanner for long distances
- Dolphin 60s: Scanphone in compact size
- Dolphin 6110: Sleek mobile terminal with a large touch display

### Motorola

- DS4800: 2D barcode imager with a striking design
- DS4308: Next generation 2D barcode imager
- TC55: Robust business smartphone
- MC3200: Mobile data collection with Android or Windows CE
- CC5000: Kiosk system for interactive customer service

### Getac

- F110: Fully rugged 11.6" tablet PC
- T800: Robust tablet with an 8.1" multi-touch screen
- V110: Fully rugged convertible PC

### Metapace

- L-42DT: Affordable thermal transfer desktop label printer

### Epson

- TM-T20II: Successor of the proven TM-T20
- TM-T70II: Improved classic with front side handling
- TM-P80: Portable receipt printer for 80 mm slips
- GP-C831: Fast industrial colour label printer

### Citizen

- CMP-40: Mobile thermal printer for media up to 112 mm wide

### Zebra

- ZD500 Series: Compact desktop label printer with optional RFID
- ZT400 Series: Mid-range printer for super quick label printing

### Intermec

- Printers: Reliable receipt- and label printers
- Mobile data collection: Powerful mobile computers
- Barcode scanners: 1D and 2D barcode scanners for versatile applications

### Glancetron

- Booksize 9550: POS PC with optimised performance
- 17L: Affordable 17" touch monitor
- Smart Stand: Practical stand for the all-in-one checkout

### Colormetrics

- P2100: Powerful all-in-one POS system with IP64 front panel

### Elo Touch Solutions

- 2401LM: 24" touch monitor for healthcare applications
- 3209L: Cost-efficient touch monitor for Interactive Digital Signage
- 5501L: Large format touchscreen with optional PC module

### iiyama

- Touch screens: Display sizes up to 27"
- IDS: Large format touch display up to 65"
- Open-frame: Open-frame touchscreens up to 22"

### PrehKeyTec

- PKT4000: Compact flatbed imager for ID cards and documents

### RatioTec

- RS2000: Money scales with intelligent weighing algorithm
- rapidcount B20 / B40: Banknote counter with integrated counterfeit detection
- RT-Series: Steel safes for cash revenues at the POS

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## JARLTECH

### Join the Conversation

Stay in touch with us and visit us today on Facebook and Twitter. Learn about insights in our company, latest product news and much more as a FAN on Facebook or FOLLOW US on Twitter!



[www.facebook.com/jarltech](http://www.facebook.com/jarltech)



[www.twitter.com/jarltech](http://www.twitter.com/jarltech)

# AN UNBEATABLE TEAM

The elegant trio for a more stylish checkout



## P2100

Fanless touch screen checkout terminal with IP64 sealing

## T-3

Economical fully-equipped top-quality printer

## K-1

Professional cash drawer for demanding requirements



P2100 not available in MENA.



# WELCOME



**Dear Jarltech Partner!**

Discover the new Jarltech main catalogue as the cornerstone for your long-term business success. At Jarltech you receive market-leading hardware from our long-standing partners. This includes label and POS printers from Zebra, Epson and Citizen, scanners, mobile computers and Wi-Fi infrastructure from Datalogic, Motorola Solutions and Honeywell, as well as POS systems and touch monitors from Elo Touch Solutions, Colormetrics and Panasonic. With a total of 19 of the leading brands, the catalogue comprises the largest portion of the Jarltech portfolio and is the standard reference that should be on every desk.

Starting today, offer your customers even more versatility and choice with Jarltech. There are two new brand names in this catalogue: with iiyama you have access to an even broader selection of professional touch monitors for various industries via Jarltech. The workmanship, the excellent price-performance ratio and the impressive included services make the display systems a real alternative. From Intermec by Honeywell you receive label printers, mobile computers and barcode scanners from one source – as usual at Jarltech on short notice or directly from stock!

Speaking of warehouses: for a quick peek at the stock quantities of any specific variants, you do not even need to log into the Jarltech website. You will find current stocks directly next to each model.

As a reseller, systems integrator, software house or e-tailer you will find more at Jarltech than just hardware from the market leaders. You will also find an array of attractive warranty services, numerous devices for borrowing at no charge, marketing support and various other services to support you in increasing your profit, plus which make your (business) life easier every day. After all, you are the centre of our attention – and your requirements are what our distribution model is built on.

With kind regards,

  
Ulrich Spranger (General Manager)  
[ulrich.spranger@jarltech.com](mailto:ulrich.spranger@jarltech.com)

P.S.: Are you already familiar with the **Jarltech App for your smartphone or tablet?** It combines numerous website functions, for example, access to your individual prices, with the functions of the Jarltech Service App. This tool simplifies the work of your service technicians on-site. With a single scan of the product code you have all warranty and service data at your disposal, including a return address! This is service – simply download the app either in the App Store or at Google Play.



# YOUR BIGGEST ADVANTAGES AT JARLTECH



## 1 Tailored to your needs **EXPEDITIOUS**

Jarltech's huge stock availability allows for immediate shipping.

Jarltech dispatches orders placed by 18:30 (CET) on the same day – at no extra charge!

Jarltech permanently has more than 10,000 products at your disposal.

Jarltech has exotic variants and colours of all devices available immediately.

Jarltech ensures fast delivery through reliable logistics partners.



## 2 More profit for you **EFFICIENT**

Jarltech's size ensures you the best conditions at all times.

You comfortably pay for goods on account with a payment term.

Upon request, arrange individual terms of payment.

Higher margins for you through our own purchasing offices in the Far East.

With each purchase, we give you bonus points for great rewards.



## 3 Perfect service **CONVENIENT**

Borrow presentation devices for testing and demonstration.

Direct delivery to your customers with your own delivery note if desired.

Order service agreements or warranty extensions with only one click.

Jarltech does not sell to end customers! We are always your partner.

Get technical support by phone at your service hotline!



## 4 One-stop shop **COMPLETE**

We are personally available to assist you at your service number.

Find product availability and prices on Jarltech's homepage around the clock.

Online, you will find data sheets, specifications and videos on all products.

Claim processing and warranty check are a couple of clicks away, online.

Jarltech's support database on the Web answers urgent questions immediately.



### Support – at a glance:

**Free-of-charge support for all resellers**  
Just call or contact us by e-mail

**Manufacturer-trained technical personnel**  
Professional first-hand knowledge

**Certified Epson Service Center**  
Overnight servicing for all warranty claims

**Extensive support database (free of charge)**  
All drivers, manuals, FAQs, etc. are available online

**Spare part service directly from stock**  
For Epson, Zebra, Datalogic and many other manufacturers

Epson **Service Center**



### Configuration – at a glance:

#### EPoS configuration

We install the operating system in any desired language

#### Software installation

At the same time, we install your software using your hard disk image

#### Hardware configuration

We configure DIP switches and settings according to your specifications

#### Product individualisation

Use of custom labels, etc.

#### Functionality and burn-in test

Upon request, Jarltech also tests your hardware before shipping

## Competence in SUPPORT & MAINTENANCE

**Technical support:** Technical support from Jarltech is free of charge for software companies and system integrators. Regular training courses and programmes from our manufacturers ensure that our service personnel is informed about the latest developments and changes. We will gladly assist you with any queries regarding hardware integration and installation. We also provide an extensive support database on our website [www.jarltech.com](http://www.jarltech.com) with all documents, drivers, manuals and extra tips for all devices.

**Repairs & warranty claims:** Repairs & warranty claims: All incoming warranty claims are processed on the same day. If we can locate the defect on our own, we repair your goods immediately or send them back to the manufacturer. As a certified Epson Service Center, we are able to perform

warranty repairs directly. This means that we do not need to send defective devices to the manufacturer, saving you valuable time.

**Spare part service:** Jarltech provides several hundreds of thousands of spare parts from various manufacturers. For example, we are an official spare part supplier for Epson POS printers, Zebra label printers and Datalogic barcode scanners. Jarltech's internet support section contains exploded views for many products; these will help you to easily identify (and order) modules, worn parts, even single screws and other small parts.

## Configuration and INSTALLATION SERVICES

With Jarltech, large projects do not automatically lead to stress during system installation. On request, we will install and configure systems, PCs and single devices according to your wishes before shipping. This can be the installation of your own disk images, installation of POS software onto a touch screen system, re-labelling of devices (like receipt printers or scanners) with your own labels, configuration of Windows CE on handheld devices or simply the installation of Windows on a PC. Then, we send them to you or directly to your customer. Your technicians do not have to spend hours on configuration anymore – all they have to do is to deploy the hardware to their desired location. Especially with large orders, our attractive installation service saves you enormous amounts of time and personnel expenses.

Furthermore, you and your customers gain additional assurance that the acquired system does indeed work as desired, as Jarltech examines all hardware components thoroughly during configuration for possible defects and damage. Defective devices are combed out immediately. We will gladly provide you with more information on how we can increase your efficiency – simply contact your Jarltech representative in our sales department!



## Bonus shop – at a glance:

**Collect bonus points for every euro/pound of sales**  
Simply register online

**Large bonus shop with fantastic rewards**  
More than 1,200 bonus rewards,  
from CDs to air tickets

**For the company owner, purchaser and colleagues**  
Jarltech pays all income taxes, so the rewards  
are free for you

**Automatic points on all sales**  
For all registered participants

**Save points for larger rewards**  
Your points never expire as long as you buy regularly

## For you and your company BONUS POINTS

Participants in our Jarltech bonus programme automatically receive points for every euro/pound of sales, which you exchange in our Bonus Shop for attractive rewards. Register for the bonus programme online at [www.jarltech.com](http://www.jarltech.com) – it only takes a minute. Find your point balance online in your bonus account in the Jarltech Bonus Shop. All points in your account are valid for twelve months from your last purchase.

The Jarltech Bonus Shop works like any other online shop; the only difference is that you spend bonus points instead of money. We deliver your rewards postage-free to any address in participating countries. The contents of our Bonus Shop change constantly – so do not hesitate, and make your decisions quickly. Naturally, we are interested in providing rewards that are as attractive as possible. If you have any

special wishes, please contact us. In order to be able to provide this service without additional costs, we gladly process your requests via e-mail at [bonus@jarltech.com](mailto:bonus@jarltech.com).

Jarltech pays all the taxes for your rewards on your behalf. This means you will not have to book the bonus rewards as revenue. Jarltech customers with invoice and delivery addresses in Austria, Belgium, Denmark, France, Germany, Italy, Luxembourg, the Netherlands, Poland, Portugal, Spain, Sweden and the United Kingdom are eligible for participation. Each company may have only one bonus account. Rewarded bonus points are not transferable and cannot be cashed in.

## Jarltech VIP – at a glance:

**Collect points and become a Jarltech VIP**  
20,000 points for Silver VIP status, 50,000 for Gold VIP

**Save shipping costs**  
For Silver VIPs at 1,000 euros/1,000 pounds order value upwards and for Gold VIPs at 600 euros/500 pounds

**Exceptionally competitive prices**  
Separate pricing, always extremely favourable

**Privileged deliveries**  
For Gold and Silver VIPs

**Technical training**  
Free of charge for VIPs and custom-tailored to your requirements

**15 percent VIP discount**  
On express and Saturday shipping service

## Exclusive advantages as a JARLTECH VIP

Gain your Jarltech VIP status with bonus points: as a bonus programme participant and with 20,000 points a year you reach Silver VIP status, and with 50,000 points you enjoy extra benefits as a Gold VIP.

As a Jarltech VIP you are eligible for special promotions (kits, bundles, special offers) and extra bonus point opportunities. Additionally, Jarltech offers you a special service for devices that are defective upon arrival («dead on arrival»), as well as free technical training courses at our premises for you and your colleagues. Of course, you also enter a different pricing group: As a VIP you receive a separate VIP price list with extra low prices, free shipping (minimum order value required, not valid on express or Saturday delivery, shipping of pallets and receipt rolls), as well as an additional 15 percent discount on express and Saturday shipping.

**Your additional Silver VIP advantages:** Once you become a Silver VIP you will automatically receive a welcome gift of 2,000 bonus points. Additionally benefit from free standard shipping in participating countries on orders worth 1,000 euros/1,000 pounds or more.

**Your additional Gold VIP advantages:** Needless to say that Gold VIPs receive the same advantages as Silver VIPs. However, upon attaining Gold status for the first time, you receive 5,000 welcome points. Furthermore, you make an even better margin as free standard deliveries are already available from 600 euros/500 pounds upwards. You also receive 25 percent more bonus points for your shopping.

## Service contracts – at a glance:

### Extended Warranty:

**More safety for you and your customers**  
Three full years warranty period for each product

### Fast and easy process

No forms – merely a 9 percent extra charge

### For all products of all manufacturers

Independent of manufacturer warranties

### Pre-Exchange Service:

**Instant service for failures within the warranty period**  
Your defective device will be replaced promptly\*

### Order it too while shopping

Only 8 percent extra charge

### Also available as combined service

Pre-Exchange Service plus Extended Warranty

## Full Cover – at a glance:

### Three years perfect security for your customers

The Full Cover Warranty covers all hardware damage – even damage not usually covered by the manufacturer

### Includes Extended Warranty

Warranty coverage for all hardware is automatically extended to three years

### Perfect planning security for your customers

No unexpected repair costs or invoices

### For many products of all manufacturers

Independent of the original manufacturer warranty

### Easy to order!

Simply add a Full Cover Warranty to your order over the telephone or via Internet at 18 percent surcharge

## Safety made simple:

# ONE-CLICK SERVICE CONTRACTS

Buy additional security that you and your customers need for only a few euros/pounds extra! Jarltech's one-click service contracts are easily ordered with your products online with a single click or conveniently over the phone. The service can cover any device of your choice – forms and applications are not necessary. Simply add the service options of your choosing when you order:

**Extended Warranty:** Merely 9 percent extra and you acquire almost all of our products with a full three-year manufacturer-independent warranty. Freely combine Pre-Exchange Service and Extended Warranty for even more security.

**Pre-Exchange Service:** Should a device that was purchased with a Pre-Exchange Service Contract break down during the warranty period, a simple phone call to Jarltech is all it takes to promptly receive a replacement device\* – delivered to you or directly to your customer. Then, you simply send back the defective device within the next ten days. You keep the replacement device and do not need to exchange it again. A single payment of merely 8 percent of the original product price is necessary to purchase this service. The service is valid for the entire warranty period, even for extended warranties.

\* Provided that the device is available.

## Always on the safe side

# FULL COVER WARRANTY

Jarltech gives you the opportunity to offer your customers excellent service for protection against defects that are not covered by the manufacturer's warranty. Regardless whether the cause is a drop, carelessness, exceptional stress, negligence or untrained personnel, with Jarltech's Full Cover Warranty, you will not be bothered by expensive servicing or unexpected maintenance costs for new hardware any longer. At an extra cost of 18 percent, you receive an all-inclusive service package »Made by Jarltech«. If a device fails during the first three years after purchase, whatever the cause, we repair it or replace it with an equivalent device. Forms and time-consuming quotations are not required.

The advantage for your customers is obvious: even though it includes a higher initial cost, during the warranty period,

unexpected costs from hardware defects no longer arise. Over the long term, the investment is safe and the customers can rest assured, as defective hardware is always replaced.

The Jarltech Full Cover Warranty is available for all products priced 150 euros/150 pounds and above. All wearing parts such as consumables or print heads, etc. are excluded from the warranty. However, all damage that was not caused by vandalism, fire or deliberate destruction, is covered by this warranty. Included in the package is a Warranty Extension to three years and coverage of damages that are not covered by the original warranty.





### Demo units – at a glance:

**Test any product before purchasing!**  
Receive demo hardware for presentations

**For direct presentations to your customers**  
Convince with concrete arguments

**Easier software adjustments**  
Use it as reference hardware for your programmers

**Many devices with a 10-day free trial**  
Contact your sales representative for more information

**Large choice and short waiting times**  
Almost every product in the catalogue is available for trial without delay

### Marketing – at a glance:

**Shipping with your bill of delivery**  
Send us your layout and direct deliveries will carry your corporate design

**Customised and neutral catalogues available**  
Get our latest catalogue without any reference to Jarltech

**E-mailing service**  
Jarltech's online tool helps you create professional e-mailings in a few steps

**Event and seminar support**  
Jarltech and our manufacturers will support you with your events and seminars

**Product videos**  
Demonstrative product videos are available in Jarltech's online library

Specially for you:

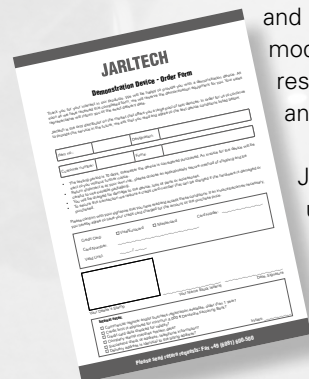
## DEMO DEVICES FOR TESTING AND PRESENTATIONS

Convince your customers with product features and on-site presentations! Only hardware presentations are really convincing – brochures and multi-coloured pictures only give a nice but not lasting effect. Systems that can be touched and tested directly give customers a totally different impression, and comparing the features of different models and brands is made easier. As a result, customers make better decisions and are more confident.

Jarltech offers you the opportunity to use our demonstration hardware for ten days' testing. Almost any product in Jarltech's portfolio is available as demo hardware in one or more variants.

Simply choose the required product for your application from our large demo pool, and you will receive it for testing. You receive most of the devices free of charge, and some for a small fee, which is reimbursed to you with your purchase. Also use our demo hardware to adjust software configurations or develop your own drivers and applications.

All presentation hardware is available for short-term immediate delivery without complicated applications. Please consider that some devices require a waiting time. If you need our presentation hardware, simply contact your Jarltech representative for more information, or to choose a suitable version for your application and to arrange a delivery date.



Convincing competence:

## MARKETING SERVICES

We provide you with more opportunities to sell your solutions with many marketing services – all free of charge or at cost price. Our extensive experience in POS and Auto-ID marketing and the production of advertising material is a guarantee for professional and effective results.

As a Jarltech customer, you are used to having your ordered goods delivered quickly and without complication directly to your customers if you wish. On demand, all bills of delivery of goods shipped to your customers through us will carry **your layout!** Fast and reliable delivery – take advantage of this service and send us your design for bills of delivery and invoices.

Furthermore, all resellers receive a neutral PDF version of the latest catalogue without the Jarltech logo – of course free of charge. Presentation of our products are now possible in full context with all product descriptions, yet without a trace of Jarltech. Alternatively, we design **your very own catalogue** based on the Jarltech catalogue – custom-tailored to your system solutions, with PDFs, print layouts, even with printing and packaging.

Additionally, we offer you our handy **e-mailing tool** that helps you copy and paste our texts and images into your own e-mail newsletters, which you send in batches to your focus group with the press of a button.

# JARLTECH INSIGHTS

## A full-fledged headquarter for China

»Finally!« can be heard at the Shenzhen headquarter of Jarltech China. The consolidation of warehouse and office space is complete. The move to the new premises further improves the working conditions for all employees. The result: increased office and warehouse space, plus a more comfortable working atmosphere in an elegant new environment. An additional advantage lies in

the new proximity between sales, administration and warehouse: this offers many logistical benefits, and it especially increases shipping speed.

Here's to a successful continuation!



## Going further in MENA



Both the offices in Cairo (Egypt) and Dubai (UAE) have also moved into new office space. The offices in Dubai, where Area Management for the MENA region is now located, are situated near the tallest building in the world, the 828 m high Burj Khalifa. What a wonderful neighbor to have when you are growing.

## Cook like a world champion

More than just hardware: take a special peek behind the scenes at the Jarltech Cookbook. The book contains an exclusive collection of international favorite recipes – cooked and presented by Jarltech employees around the world, from all departments. Within the approximately 80 pages you will find plenty of inspiration for your future cooking adventures.

There is also a second edition available: we asked our suppliers to tie an apron around their waist and cook for you. The results speak for themselves. Plus, this way you have a face to go with the vendor's name. And that is what counts for us: close personal contact.



You don't have a copy of the Jarltech Cookbooks?

Then simply call your representative for one!



## Grow with Jarltech's industrial know-how!

Jarltech is proud of its high degree of stock availability and quick delivery speed. But just as important is the quality of advice and consultation that you as a Jarltech customer benefit from every day. In order to simplify your entry into various markets and sectors – healthcare, storage & logistics, etc. – Jarltech offers you special micro web-sites filled with **market information, typical areas of application and a large selection of corresponding products** – extra for you!

Here you will discover growth potential for your own undertakings, plus show your customers opportunities for optimization. This way, everyone benefits.

Healthcare  
Solutions



# JARLTECH INSIGHTS

## Take the time to get a new perspective – with our CEO blog

What does Jarltech management have to say about this? Find out in the CEO blog! Current trends in the industry, world new sensations, internal developments and growth figures – experience the world from the CEO's perspective. Refreshing opinions and fascinating insights are waiting for you directly on the Jarltech homepage! Always be among the first to know the latest news.

Visit our CEO blog at: [www.jarltech.com](http://www.jarltech.com)



## JARLTECH »My Account« means more comfort for you

As a registered Jarltech customer you have direct access to your data.

Under »My Account« you have versatile services at your disposal. Track current orders, manage your delivery and billing addresses and easily create RMAs without complications. You have direct access to exclusive special offers, to the Jarltech newsletter, as well as our marketing services – all at a glance!

If you should have any questions simply contact your sales representative.



# JARLTECH APP

## Keep your overview: Jarltech as a compact app for on-the-go

The Jarltech app offers you many practical and important functions with which you may also keep track of your business when underway, without stress. Via the app log directly into your personal customer account to quickly and reliably receive individual prices, see stock quantities, etc.

Access to the newest product news and special offers, even the CEO blog, is just as easy – simply select the desired option from the home screen. The same applies to the Jarltech Bonus Shop: browse through the available premiums anytime and pick out your favorites. Your collected number of points is always current.

In short: you have many functions of the Jarltech website and the online shop in a compact format, optimized for on-the-go usage.



But there is more: with the app you also have the integrated service function at your fingertips – for simple on-site access to warranty and service data of defective hardware. Simply scan the barcode of the defective device and call up all available data. Comfortably forward all the information – including the responsible service center – via e-mail.

With just one app you have access to the most important Jarltech functions – anytime, anywhere!

Simply scan the QR-Code and  
download the App for free!



Apple, the Apple logo, iPhone, iPad, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.



## Hardware you can touch

Welcome to Europe's largest exhibition for POS and Auto-ID perpetually open for you, where all the leading vendors present nearly their entire portfolio. Have a look at and test POS systems, barcode scanners, printers and handheld terminals over an area of several hundred square metres. Hundreds of devices are set up, configured and ready to go – from bar-code scanners to large format IDS displays.



### Test, compare, present: one visit is all it takes

The exclusive Showroom was conceptualized and established for you, of course – our customers. The combination of the newest models, together with such a comprehensive portfolio that you will not find anywhere else, gives you a current overview and excellent comparison options at all times. That is also a reason why both Jarltech and the represented vendors gladly use the rooms for training sessions and

presentations. You can too: simply bring your customers with you and let them test and compare for themselves on-site. A grounded purchasing decision ensures for a long-term feeling of satisfaction – for both you and your customers. The same applies to the training area and adjoining conference rooms. We will gladly make either the entire area or just a portion available to you for your next event.



### Compare

Test and compare hundreds of devices from the top vendors on-site – when it fits into your schedule.

### Relax

Utilise the convenient Jarltech pick-up service directly from the Frankfurt Airport or Train Station for both you and your customers – in half an hour, you are here.

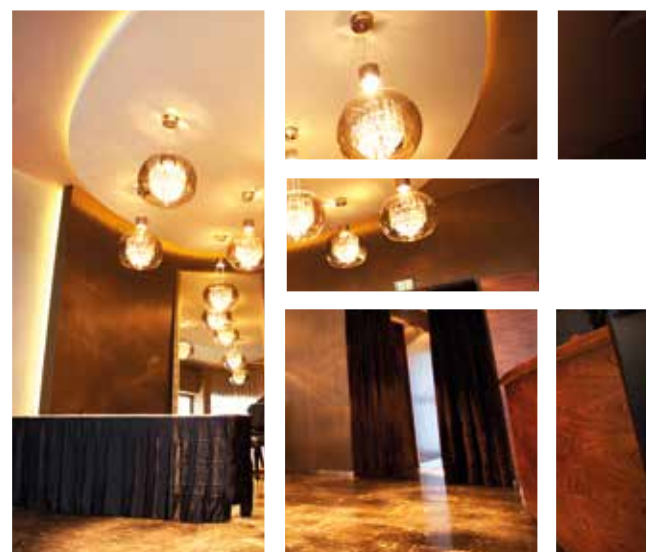
### Host

Come by with your customers too. In the adjoining Training Centre, there is plenty of space for your customer events and training sessions.

## Jarltech Networking Dinner & Gitex Networking Event

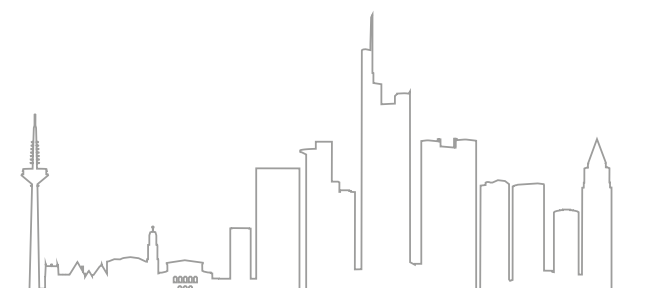
### Networking in the best of company

A close relationship with partners, good communication - that is the basis for business success. Jarltech maintains regular exchange and organizes international networking events in Frankfurt am Main for Europe, and in Dubai for the MENA region. An evening during which the cooperative partnership is in the foreground and the relaxed lounge atmosphere brings Jarltech employees, manufacturers and customers closer together.



### An institution: the Jarltech Networking Dinner

The evening features a fantastic barbecue buffet, cocktails and live music, along with a view of the skyline - that is the Jarltech Networking Dinner in the heart of Frankfurt am Main. Such a relaxed evening is ideal for small talk, as well as for exchanging ideas - spanning departmental, organizational and geographic boundaries. Over a refreshing cold drink new contacts are made and existing ones are deepened, ideas are developed and experiences are shared. Entertainment is also well taken care of: attractions like original arcade game machines, a close-up magician, a raffle or the largest Carrera race track in Europe provide the necessary extra kick everytime. All too soon it's over and then the waiting starts again. Here's to the next »Jarltech Networking Dinner«.



### The Gitex Networking Event in Dubai

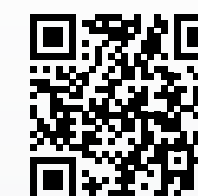
Even in Dubai, where the Jarltech Area Management for the MENA region is located, Jarltech regularly extends invitations for an exchange between good partners. The Gitex Networking Event has since become an institution there: every year the event takes place on the outskirts of the largest IT trade show in the region, the Gitex. This brings vendor partners, customers and the Jarltech team together in a relaxed atmosphere, and makes a lasting contribution toward a trusting partnership. The difference between the networking in Frankfurt: the view and surroundings are a bit more spectacular!



## Jarltech Networking Dinner Videos

Pictures are not enough? Then watch the videos of our events in full length on our Facebook page.

Visit us on [www.facebook.com/jarltech](https://www.facebook.com/jarltech).  
Scanning this QR code will lead you there!





PROMAG™

SmaFinger

fingerprint and contactless smartcard reader

# PROMAG™

**Everyone is talking about the advantages that come with RFID and transponder technology. Time and attendance control as well as access control are perfect applications for this kind of proximity data capture. Jarltech offers now various Promag RF transponder devices for professional applications. Jarltech is exclusive distributor in Germany for Promag RFID hardware.**

Not only contactless data reading and writing is an RFID advantage – you have an enormous selection of tags at your disposal: they are available as writable or read-only versions in various shapes, such as cards, chips or key-ring pendants – even screwed onto objects or walls. In order to make the adaptation to this new system easier, many Promag devices optionally include readers for magnetic and smart cards or bar codes.

Promag is the leading Taiwanese manufacturer of RFID technology and auto-ID hardware. Promag can offer an incredibly wide range of devices ready for various applications and areas at outstanding hardware quality. The implementation of Total Quality Management (TQM) at Promag makes defects extremely rare and improves the durability of their products significantly compared to many rival products.

Jarltech has included a large selection of Promag time and attendance as well as access control products in various versions. This includes simple door locks, fixed-installation time clock terminals and even portable RFID tag readers for security surveillance in industrial manufacturing sites or other security applications. All devices are usually available from stock and delivered within 24 hours.

With Jarltech you offer your customers our extended services – as with all products you can extend the warranty for Promag products with an optional Advance Replacement Service. If one of the devices fails within the warranty period, we will replace it immediately – your customer only sends back the original device after receiving our replacement.



Promag Product Overview

RFID



| Model            | GPW-100/PCR-340                                                                                | PCR-300/310/330                                                                                        | GP-/LBR-Serie                                                                                                                                                                        | MF700/MF7                                                                                                                                        |  | ER750/755                                                                                                                                                  | UR110/115                                                                                                    | GP-60/90-A                                                                                                                    | AMP600                                                                                                                                                          | WEC-200                                                                                                                                  | RWM-600/MF5                                                                                                                                                  |
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| Description      | Page 320                                                                                       | Page 321                                                                                               | Page 322                                                                                                                                                                             | Page 321                                                                                                                                         |  | Page 323                                                                                                                                                   | Page 323                                                                                                     | Page 323                                                                                                                      | Page 324                                                                                                                                                        | Page 324                                                                                                                                 | Page 324                                                                                                                                                     |
| Characteristics  | <ul style="list-style-type: none"><li>• RFID reader / writer for EM- and Mifare tags</li></ul> | <ul style="list-style-type: none"><li>• Desktop RFID reader/ writer for 13.56MHz and 125 kHz</li></ul> | <ul style="list-style-type: none"><li>• High performance proximity readers featuring long range and small dimensions</li><li>• Also very professional secure data versions</li></ul> | <ul style="list-style-type: none"><li>• High performance proximity sector reader</li><li>• Also very professional secure data versions</li></ul> |  | <ul style="list-style-type: none"><li>• RFID reader for Mifare UID or sector data and MAD format</li><li>• Standard frequency range of 13.56 MHz</li></ul> | <ul style="list-style-type: none"><li>• Contactless data collection</li><li>• Seamless integration</li></ul> | <ul style="list-style-type: none"><li>• High performance proximity reader featuring long range and small dimensions</li></ul> | <ul style="list-style-type: none"><li>• ISO15693 RFID 13.56 Mhz reader/ writer. Perfect for multi-tag solution to be read in one time in a long queue</li></ul> | <ul style="list-style-type: none"><li>• Converter Wiegand to Ethernet</li><li>• Professional connection of stand-alone devices</li></ul> | <ul style="list-style-type: none"><li>• RFID read-/write module for in-counter-installation</li><li>• High-grade mounting scanner for OEM-projects</li></ul> |
| Special Features | Encoding ID tags on site, any ID can be programmed                                             | Device returns signal when card is removed                                                             | Weather resistant, high power supply range from 5 to 12.5 VDC, ideal for in-counter installation                                                                                     | MF700 reads sectors                                                                                                                              |  | Ethernet Interface with PoE option                                                                                                                         | Weather-proof piano finished housing, variable voltage (7.5 to 12 V)                                         | Weather resistant, high power supply range from 5 to 12.5 VDC, incl. door sensor                                              | Reading distance up to 30cm flat aerial design, reading 16 tags at the same time, IP40                                                                          | Support of many Wiegand-Formats, easy ethernet integration because of own ID                                                             | Extensive software-kit, incl. demo-software, source code, in-depth documentation                                                                             |
| Target groups    | suitable for customer to program tags as requires                                              | Tracking, retail, customer, loyalty, leisure, gambling, prepaid parking                                | For any RFID data collection, f.e. tracking, serial number check                                                                                                                     | Access Control, for any RFID data collection, secure data systems                                                                                |  | Access control, user identification, timesheet recording                                                                                                   | Access control, identification                                                                               | For any RFID data collection, f.e. tracking, serial number check                                                              | Valuable items/ assets tracking, Library gate, access control, retailing                                                                                        | Online-access control, network applications                                                                                              | Installation, backfitting, enhancement of any systems                                                                                                        |

Time recorder

Access control / fingerprint reader

Mobile transponder- and magnetic stripe reader

Ethernet terminal



| Model            | TR-515                                                                                                                                            | TR-4050                                                                                                                                                    | SF Series                                                                                                                                                                     |  | GS2000                                                                                    | PCR-/MFR-120                                                                                                                                                                                       | MSR-120/U                                                                                                                                                    | FAT800                                                                      |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Description      | Page 325                                                                                                                                          | Page 326                                                                                                                                                   | Page 327                                                                                                                                                                      |  | Page 327                                                                                  | Page 328                                                                                                                                                                                           | Page 328                                                                                                                                                     | Page 329                                                                    |
| Characteristics  | <ul style="list-style-type: none"><li>• Online / offline time clock terminal</li><li>• RFID, magnetic stripe or barcode reader included</li></ul> | <ul style="list-style-type: none"><li>• Ethernet or stand alone time recorder with large LCD display</li><li>• Versions with fingerprint readers</li></ul> | <ul style="list-style-type: none"><li>• Stand alone access control system</li><li>• For RFID-tags</li><li>• With fingerprint-reader</li><li>• Different entry-modes</li></ul> |  | <ul style="list-style-type: none"><li>• Portable RFID reader with metal housing</li></ul> | <ul style="list-style-type: none"><li>• Mini portable proximity RFID reader with LCD</li><li>• Reads tags in 125 kHz-Range (EM4102)</li><li>• Mifare optional</li><li>• Miniature format</li></ul> | <ul style="list-style-type: none"><li>• Small magnetic card reader with display</li><li>• Very robust and compact</li><li>• Reads all three tracks</li></ul> | <ul style="list-style-type: none"><li>• Ethernet data terminal</li></ul>    |
| Special Features | ASCII format data output                                                                                                                          | Door opener sensor and built-in floppy disk drive for data exchange version with fingerprint reader                                                        | Biometric fingerprint identification and 13.56 Mhz RFID technology combined                                                                                                   |  | Uses Alkaline battery, robust baton type metal housing                                    | LCD display with background light                                                                                                                                                                  | LCD display with background light                                                                                                                            | Programmable keypad with 20 keys alphanumeric LCD display (16x2 characters) |
| Target groups    | Online time-recording, Registration                                                                                                               | Online time-recording, Registration                                                                                                                        | Time attendance, access control and hotel locker management                                                                                                                   |  | Safe guards, inspection, maintenance, asset management                                    | Time attendance data collection of employee                                                                                                                                                        | Mobile time and attendance, payment                                                                                                                          | Cash cards membership cards                                                 |



# Enhancing the Supply Chain

with **RFID**

RFID has captured the attention of many leading companies today who are making significant investments of money and time to make this technology feasible in their operations. The goal, however, is to leverage internal RFID structures to capture and share real-time business information across entire enterprises and with trading partners. In other words, RFID deployments based on open, standardised EPC interfaces that enable interoperability and multi-vendor implementations may achieve the ultimate in global data sharing: total asset visibility.

**RFID can transform the following business processes:**



### Supply Chain Management

Thousands of inbound and outbound shipments can be identified with RFID smart labels that enable unattended identification, verification and sorting at different points in the supply chain across trading partners and distribution centres.



### Inventory Control

RFID can significantly deliver correct and current information about inventory levels to allow companies to ensure they can deliver what they have promised. In addition, better inventory control reduces storage space and labour costs and improves asset utilisation. It also enables faster billing cycles and contributes to cash flow.



### Asset Management

RFID promises more effective asset management by providing real-time information about location of assets ensuring employees always have equipment, tools and other resources when and where they need them.



### Work in Progress

Along the assembly line, tasks associated with WIP can be reported back to the systems with RFID, identifying that each step of the assembly process was completed and ensuring that quality control measures were taken reducing make-overs.



### Anti-counterfeiting/Track and Trace

Materials authentication is another complementary asset management application. It provides a way to detect counterfeit products and can ensure that only authorised parts and supplies are used. Many organisations in the pharmaceutical industry will use RFID to comply with FDA rules to improve the security of the drug supply chain. This includes grey market trading and product recall.



RFID technology has already been a hot topic for years. While economic, technical and legal aspects are still being discussed, it is already used successfully in many fields for quite a long time and is widely accepted. RFID can be used as complete solution or component in larger systems: contactless access control is an enormous market segment with unexpected potential that is getting more and more important. Resellers and system integrators have vast opportunities, as the number of potential customers, applications and business segments is seemingly unlimited.

As RFID solution provider you establish yourself in a market that will be growing significantly in the next years. Massively increasing supplies have already pushed the prices of RFID tags to a level that makes RFID an attractive alternative or addition. Many bar code applications, for instance, are realised more easily and securely with RFID tags than with conventional labels.

RFID products from Promag offer hardware for integration into any system that can be used instantly and for all possible applications. A large

choice RFID modules for various transmitting technologies, shapes, connectivity options and protocols are available for every application that already exists or is in development: desktop devices for writing car park and customer cards are available as well as weather-resistant readers for access control of cars and individuals in security areas or at automatic gates and door in entrance and exit areas.

Promag is the leading Taiwanese manufacturer of RFID readers and writers. Many years of experience guarantee professional high-quality devices and a wide range of modules and special-purpose hardware. Jarltech has been official Promag distributor for many years. Our professionally trained staff will assist you with any RFID-related issues and provides attractive services.

## Promag GPW-100

- Read/Write device for RFID transponder
- Automatic ID generator
- Serial interface (RS232)
- Also used to copy transponders
- EM4102-compatible

The GPW-100 is a stationary read/write device for EM4102 compatible RFID transponders. It is particularly intended to write sets of transponders or individually encode tags.

The included software writes an ID to the transponder – enter the ID on your keyboard, import it from files or let the software automatically create a serial number. Connect the device to the host over the serial interface (RS232). The GPW-100 works with tags that use the 125 kHz frequency band. It can output IDs in decimal, hexadecimal or Wiegand format. Certainly a useful and practical addition to all Promag systems.



## Promag PCR-340/360

- Professional reader for RFID tags
- Reads 125 kHz and 13.56 MHz transponders
- Supports EM technology, Mifare MF1, Ultralight and DESFire
- 3-in-1 multi-interface: RS232, keyboard wedge and USB
- 5V AC power supply included

The PCR-340 is a stationary reader for RFID tags with a dual-frequency aerial. It reads not only all tags that use the EM standard, but also Mifare 13.56MHz transponders. It reads 125kHz transponders within a range of 8 cm and 13.56MHz RFID tags that comply with the 14443A standard within a range of 4 cm. The PCR-340 features a 3-in-1 interface that offers you a keyboard wedge, serial and USB interface for easy access from a computer.

Its dual-frequency allows professional support for various transponder hardware. The PCR-340 is included in the SF500/SF600 starter kit for biometric access control.

The PCR-360 - like the PCR-340 - reads transponders with 13.56 MHz, but interprets tags compliant with the ISO15693 and the 18000-3 standards. It can be connected via USB interface.

The required 5V AC power supply is included in every standard shipment.



## Promag PCR-300/330

- Stationary RFID reader
- Small size
- EM4102 compatible tags (125 kHz)
- Automatic read
- Versatile application

The Promag PCR-300/330 is a stationary reader for RFID tags and cards. Easy integration into your applications makes it a preferred choice for POS, customer retention, discount, debit card systems or even as a waiter lock.

Depending on which version you use, the device is simply connected to the RS232 or USB port of any PC. The reader can detect transponders within reading range automatically or with the press of the button, sending its data to the interface afterwards. In order to process any read transponder data, your software application is required to poll the interface actively.

Once the card is removed again, the PCR-300/330 sends a value to the interface. You can use this function easily to determine if the user is still working the terminal (waiter lock function).

Your own individual software for Promag hardware is also easily written. The device is controlled with ASCII commands. Further documentation of all commands and functions is included with the device.



## Promag PCR-310

- Stationary RFID tag reader/writer
- For ISO 14443A tags
- Also for Mifare Class and Mifare PRO
- Versatile applications
- Can be used as waiter lock using »PC-Security« software

The PCR-310 is a stationary reader/writer that operates with ISO-14443A transponders, compliant to Mifare Class and Mifare PRO standards. This compact unit (only 100x65 mm) allows you to integrate all kinds of solutions with RFID cards, tags or transponders fast and easily into various software applications, for example the point-of-sale, in a hotel, in fitness and recreation centres, for access control and time recording or even bonus systems, customer cards and member cards – the PCR310 can be used almost anywhere.

Depending on which version you use, the device is simply connected to the RS232 or USB port of any PC. Optionally, you can use the device with the included ProxGina software (»PC-Security«) and window drivers to secure workstations against unauthorized use.

A detailed product documentation as well as all drivers are also included in the delivery.



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## Promag MF700/MF7

- Contactless data collection with RFID
- For Mifare Standard 4K, Mifare Standard 1K-Tags and MAD1+2
- Ideal for access control and time recording
- Robust and compact: only 83 x 47 x 16 mm
- Also suitable for outdoor use

The new MF700 transponder reader from Promag helps to realise customer-specific data collection with RFID tags on an absolutely professional level. The reader scans all tag information (not only serial numbers) that is stored in different sectors and MAD1/2 of the transponder. The chips are available in various designs and feature internal encoding to ensure a high level of data security and professional protection of personal data.

This makes the MF700 perfect for access control, user identification, inventories, payment systems, patient registration in hospitals etc. The reader uses transponders that offer multiple directories for applications. This means that instead of only saving patient numbers, the tags can also hold data like blood type, diagnosis and treatment plans.

If your application only requires reading the ID number, you can also obtain a stripped-down ID reader version of the MF700, the MF7. The MF7 reads Mifare 1K and Mifare 4K transponders (UID) and is a simplified version of the MF700 that allows cost-effective RFID solutions.



Its compact size of only 83x47x16 mm makes it easy to integrate the MF700 into existing systems or install it into machines and cabinets. Installation on metal is also no problem. A variable power supply of 7.5 to 12V makes it compatible with many systems. A weather-resistant housing even allows

outdoor installation (-10° to +60°C) or installation under other harsh conditions.

Every device receives a unique ID. Accordingly, the reader can be used in existing networks easily when used in combination with the Ethernet converter WEC-200 (for more information see page ). Now large production facilities and companies can be networked instantly and whole office buildings or hospitals can be secured easily with professional authentication. Integrated RS232, Wiegand (26-128Bit) and Magstripe interfaces offer a high degree of flexibility for connectivity options. The MF700 is also available as development kit for immediate use – cable, AC adaptor, software, transponder cards (three pieces, 1K) and a PCR-310U for individual programming included.

## Promag GP-/LBR-series

- Proximity data collection with RFID
- Long-range RFID reader with up to 30 cm operating range
- Serial ASCII, Wiegand and Magstripe data format
- For 125 kHz transponders, EM4102 or Mifare 13.56 MHz
- 5V to 12.5V power supply

The GP and LBR series readers offer the highest standard RFID applications. The compact RFID reader modules are the perfect solution for installation in machines, industry equipment and in-wall mounting. They read EM compatible tags at 125 kHz LF and Mifare tags at 13.56MHz HF within an operating range of 30 cm. The individual ID and data is transferred then to the host over the serial interface.

The modules can even be used for upgrading existing systems (e.g. bonus and billing systems, vending machines and similar) that previously used bar code or magnetic card technology. Simply install the module directly at or in the respective machine.

The data output format is individually selectable, which makes integration into existing systems much easier and allows flexible use of the modules. You can choose from RS232, ASCII, Wiegand and Magstripe. An optionally connected external aerial enhances the reader's operating range further. Circuit diagrams and a detailed installation manual are included with every device. Its generous input voltage range of 5 to 12.5 V makes extra adaptors obsolete. Simply connect the module to the power supply of the host system.



The readers' exterior design is different for various applications. The following overview gives a list of used standards and operating ranges:

GP8, EM4102, up to 8 cm reading range  
 GP20N, EM4102, up to 20 cm reading range  
 GP25, EM4102, up to 25 cm reading range  
 GP25a, EM4102, up to 25 cm reading range  
 GP30N, EM4102, up to 30 cm reading range  
 LBR100, EM4102, up to 20 cm reading range (upon request)  
 LBR200, Mifare, up to 5 cm reading range (upon request)

## Promag ER750/ 755

- RFID reader for Mifare UID or sector data and MAD format
- Ideal for access control, user identification and timesheet recording
- Standard frequency range of 13.56 MHz
- Simple integration via Ethernet, inside and outside
- Up to 7 cm reading distance

With the RFID readers ER750 and ER755 from Promag, you implement reliable timesheet recording, user identification, guest registration and access control for secure areas in a simple way. Identification is performed contactless by means of Mifare UID (ER750) or by means of sector data and MAD format (ER755) in a standard frequency range of 13.56 MHz. Capture occurs within a reading distance of up to 7 cm.



Use the readers both indoors and outdoors, since their ABS housing is weatherproof, and smooth operation is guaranteed within a temperature range of 0-60°C. Thanks to their compact size (11.2 x 9.6 x 2.2 cm) and sleek black design, the RFID readers can be inconspicuously integrated everywhere. You integrate the readers simply via Ethernet (PoE optionally available). With your unique ID you even use different units in combination. Additionally, the integrated LED and buzzer are user configurable.

## Promag-UR110/115

- Contactless data capture for reliable user identification
- Seamless integration thanks to small footprint and various interfaces
- Individually changeable design with LED lights and buzzer
- Weatherproof piano finish housing for indoor and outdoor operation
- Wide operating voltage: between 7.5 to 12 volts



The new UR110 from Promag is a reliable reader for contactless data capture in an attractive design. Use the UR110 for applications in security access control environments, as well as for user identification. It can read at up to a distance of 9 cm. Its wide operating voltage between 7.5 and 12 volts simplifies operation in many systems. Thanks to its compact footprint, it integrates simply into any surrounding. Its weatherproof casing allows it to be installed outdoors as well (with an operating temperature range of -10°C to +60°C), or in extreme work areas, without any problems. Choose from various interfaces according to your requirements: Wiegand, Magstripe, RS232 or RS485.

In addition to perfect performance, this device will also impress you with its high degree of flexibility with individually changeable casing. To meet the wide range of applications in security access areas, it comes with a customised logo, LED lights in six different colours for reading and stand-by modes, as well as configurable buzzers. Its attractive piano finish tops off the elegant design.

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## Promag GP-60-A

- Long-range RFID reader
- Up to 60 cm reading range
- Very compact: 21 x 21 x 2.8 cm
- Weather-proof
- RS232, RS485, Wiegand

The GP-60-A is a long-range reader that can detect RFID transponders from up to sixty centimetres distance.



An internal relay allows direct connection to door openers and other systems. Use the GP-60-A to implement security and access solutions easily or use it in car parks, line production facilities or container registration. Its long range even allows reading the transponder through walls and packaging. Once a transponder is correctly detected, an acoustic signal notifies users. All read data is transmitted over the serial interface to the host. The data output format is selectable, making integration into existing systems easy. You can choose among RS232, ASCII, Wiegand and magnetic card format. An open cable tail simplifies integration into existing systems. Another advantage of the GP-60-A is a variable power supply range from 5V to 13.5V.

The sturdy weather-proof housing is well-suited for outdoor operation at -10° to +60°C.

## Promag GP-90-A

- Long-range RFID reader
- Up to 90 cm reading range
- Extremely weather-proof and spray-water resistant
- RS232, RS485, Wiegand
- 125 KHz EM-compatible

The GP-90-A is a long-range reader that detects 125 kHz RFID transponders (EM technology) from up to ninety centimetres. Its enormous range results in a vast number of possible applications, such as personal identification, access control, or automatic time clocks in enterprises.



Each unit is equipped with an integrated connection for a door opener that receives an electrical pulse whenever a registration is successfully completed. Thus, you use it easily for stand-alone access control. Industrial applications that use production lines are also suited for the use of this terminal, as the RFID transponder can be detected automatically through packaging or from pallets. Any transponder that is in range of the terminal is read automatically and then transmitted in the desired format.

The GP-90-A indicates a successfully scanned ID both visually and acoustically. Input data can be transmitted over different interfaces (RS232, RS485, Wiegand and Magstripe). An open cable end makes integration into existing systems significantly easier for users. Other advantages for system integration include a variable power supply of 120V/60Hz or 230V/50Hz and the sturdy weather-proof and break-proof plastic housing.

## Promag AMP600

- **Special-purpose RFID reader**
- **Recognises and decodes up to 16 tags simultaneously**
- **Possible applications: rental systems, laboratories, etc.**
- **Compact stationary unit**
- **Aerial included**

The Promag AMP600 is a compact reader for standard 13.56MHz Mifare transponders (ISO-15693) that can be used in special retail security and rental systems, securing samples in laboratories and more. The professional device reads and writes information of 16 tags simultaneously and is therefore suitable for a wide variety of special applications in POS, in video stores, for security, laboratories and more. The tags may contain a serial number as well as a small database, e.g. to keep track of changing data values over a longer period of time.

Its thin design makes it perfect for stationary installation, e.g. at a cash desk or counter. With its modern housing colour the AMP600 also optically integrates itself in demanding POS areas. You attach a transponder to their objects using labels or tags. Thus, expensive goods (like jewellery), laboratory items (like analysis), or media (like DVDs) can be secured against theft, easily tracked and automatically updated with data. The high-performance aerial can read up to 16 tags at a distance of up to 30 cm.



## Promag WEC-200

- **Ethernet converter for real-time online networking**
- **Wiegand interface compatible**
- **TCP or UDP data transfer**
- **Ideal for access control and time recording**
- **Robust and compact: only 100 x 97 x 25 mm**

Data, once collected, often has to be transferred over a large distance. Large and medium-sized companies can often use their own company network for this purpose. However, many readers only have a standard interface and cannot be integrated into the network.

The WEC-200 converts data packets of various data collection devices with Wiegand interface into an Ethernet compatible format. It supports Wiegand formats with 26, 30, 34, 35, 37, 38 and 42 bit. This allows long-range data transfer over the company network of your offices and production facilities.

With devices such as the Promag access control unit SF-500/600 or RFID readers of the GP series, the converter takes the data packet with the serial number of the accessed tag and transfers it over TCP/UDP.



## Promag RWM-600

- **OEM RFID read/write module**
- **For 13.56 MHz, ISO 15693**
- **Kit incl. demo software, protocols and DLLs**
- **Access of up to 16 smart labels simultaneously**
- **Very compact circuit board: only 55 x 50 x 15 mm**

The RWM-600 is an RFID module that can be easily used for integration into own systems, machines, terminals and other devices. Use the module to write and read all ISO/IEC-15693 compatible transponders and smart labels, such as I-CODE SLI or Tag-It HFI from a distance of up to 20 cm. The RWM-600 is available either as separate module or as fully functional kit for immediate use that includes all required parts: The development kit includes the add-in reader/writer with serial port (RS232 or RS485), an aerial and of course demo software with many functions. The system is located on an add-on board and has a SUB-D port for data access, a standard aerial port and jack socket for power supply.

The device uses the open protocol standard »GNet Plus« for which various tools and development kits are available. The provided software demonstrates exactly how access and data manipulation of smart labels works. It is provided as a binary version as well as source code in Visual Basic 6 and C. Furthermore, the package contains communication libraries that are used to integrate the hardware into different operating systems and programming languages.

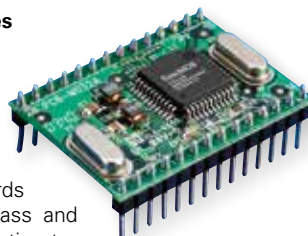


## Promag MF-5

- **RFID module for contactless data collection**
- **For ISO/IEC 14443A compatible transponders**
- **Robust and compact: only 65 x 100 x 25 mm**
- **For integration into custom devices**
- **RS232 TTL interface**

The MF-5 module is an easily integrated reader/writer for Mifare transponder cards. The device reads transponders using standards ISO/IEC Standard 14443A, Mifare Class and Mifare PRO at a distance of up to five centimetres. Install the module behind plastic covers and blinds in terminals or workstations, machines and access control systems. Because of its compact size, this reader/writer is also suitable for portable devices. Connect the modules simply at the RS232 TTL interface.

The device uses the open protocol standard »GNet Plus« for which various tools and development kits are available. Additionally, the provided software demonstrates in detail how access and data manipulation is achieved on each transponder. The software is provided as binary as well as Visual Basic 6 and C source code. Furthermore, the package contains communication libraries that are used to integrate the hardware into different operating systems and programming languages.



## Promag TR-515

- **Online / Offline time clock terminal**
- **Memory for 8,200 registrations**
- **RFID, magnetic stripe or barcode reader included**
- **Ethernet interface**
- **ASCII format data output**

The TR-515 is a modern online time clock terminal with Ethernet interface. Reasonably priced, it is a cost-effective alternative to expensive high-end terminals while still supporting all major functions of a modern time clock terminal. The device is available in three different versions. You can choose among bar code, magnetic stripe or RFID reading units. As it is directly connected to your computer network and offers various related functions, it is the perfect choice for time clock applications in medium-sized and large enterprises.

Connect the unit to your computer network or a PC using an Ethernet cable. An external 9V AC adaptor for power supply is included in the package. Use the setup software, then allocate an IP address to your terminal and set a unit ID to distinguish it from other units in the same network. The device is now ready-to-use and can be installed immediately. A drilling template makes installation on walls or tables easy. The TR-515 can also be installed upside-down, if required for ergonomic or installation reasons. In this case, you may use the included upside-down display labels. The display itself can be turned by 180 degrees using the software setup.

Use the TR-515 software manager to control all functions of the TR-515 from any PC located in the same network. For example, you can configure how registered user data is transmitted (automatically in intervals, manually, by email). Intervals and individual transmission points can be software configured. Two data formats are



available – choose between ASCII text and CSV files. The database structure is really simple: terminal ID, transponder ID, event (»IN« or »OUT«), date and time.

Additionally, you will have the opportunity to limit the ID length to a fixed number of characters. The device can use up to fifteen decimal places of the transponder. Relay switches (automatically opening doors after ringing the bell) and event configuration (e.g. event "IN" only within 08:00-10:00, event »OUT« only within 17:45-19:30) saves time for all users, as cumbersome key presses become irrelevant. All commands, functions and protocols are described in detail in the included manual.

Provided with the unit are the TR-515 software manager, two display masks, two connection cables, one installation kit, an AC adaptor and a drilling template. A cable covering is optionally available.

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Promag TR-4050

- Online time clock with RFID reader
- Also suited for access control
- Fingerprint reader version (TR-4050)
- Saves up to 12,000 entries (TR-4050: plus 1,900 fingerprints)
- For stand-alone and networked applications

The TR-4030 is an online time clock terminal that was designed for recording working hours in medium-sized and large enterprises. The terminal is available with an integrated barcode, magnetic or RFID reader (EM compatible or ISO 14443A), and offers you a high degree of flexibility with a wide range of reader and identification options and your respective combinations. High-quality design and excellent ergonomics combined with Ethernet-based network integration with up to thirty terminals make the TR-4030 an attractive choice for the most sophisticated and professional applications.

All devices of the TR series include an internal relay for opening doors and controlling alarm systems. The door controller unit is directly connected to the terminal. Using the device is extremely simple: users register their cards with the device by simply holding the transponder close to it. The terminal creates a database entry with event (in, out, break), card ID and time up to 12,000 times. The recorded data is read offline using the integrated 8.9 cm (3.5") floppy disc drive (TR-4030), using a USB stick (not supplied) connected to the USB port (TR-4050), or online using the Ethernet interface of the device.

The terminal version TR-4050 allows registered users (up to 3,000) to gain access to the terminal with their fingerprint. Users only store their fingerprint data once while all other connected devices receive



the data over TCP-IP. An Ethernet connection allows network access to the records. If the device is disconnected, it can store up to 8,200 records in its offline mode. Large companies can connect up to 255 TR class devices in a network.

In order to prevent possible read errors, the online terminal features an integrated RFID reader (125 kHz). If a user's fingerprint cannot be recognised, access is still possible with an additional tag.

Further external peripherals can be connected to the terminal whenever necessary. You can use the device with magnetic cards as well as barcode labels by connecting an external MSR or barcode scanner to the RS232 interface. Setup of every station is performed directly using the keyboard or simply with the software.

Promag SF-Series

- Professional fingerprint access control
- Combines biometric and proximity data collection
- Reads fingerprint data and RFID tags according to ISO14443A (version for EM compatible tags optional)
- For up to 1,900 registered users
- RS232, Wiegand and ABA-TK2 (Ethernet optional)

The access control systems of the Promag SF series offer you a new generation of data collection with a high standard of security. A combination of fingerprint and contactless data collection via RFID is used for identifying users. The device reads tags and transponder cards with 13.56 MHz (ISO 14443-A-Standard) and provides access only after matching collected information. Select one of three access modes: only via card, only via fingerprint, or at the highest security level using a combination of a card and fingerprint.

The terminals provide you with professional support for all time collection applications in companies (e.g. in hotels), cashless payments, customer systems and diverse models of employee identification such as log-in systems in the IT branch.

Configure user information easily with the supplied fingerprint software: The SF500 stores 10 fingerprints. In other words, up to 10 users can gain access without the use of a transponder only with their fingerprint. Fingerprint information may also be stored directly on the transponder card. Thereby, you authorise access to an unlimited number of employees with a combination of RFID and biometric access control – the fingerprint is simply compared with the information on the card.



On the other hand, the SF600 and SF650 are also ideal for access control and time collection systems in large companies. Fingerprints of up to 1,900 employees are directly stored in the devices, providing high access security: lost employee cards do not allow access to strangers or loss of employee information. Additional connection of online systems to support the extensive data bank of the fingerprint information is not necessary, despite the large amount of collected data. For fast integration with existing systems, the devices of the SF series are equipped with a 3-fold interface, providing RS232, Wiegand and ABA-TK2 directly to you. The SF650 is especially fast and has an impressive high performance fingerprint reading capability, and additional Ethernet interface.

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|                        |    |  |            |    |        |   |
|------------------------|----|--|------------|----|--------|---|
|                        | 12 |  | pmtr515em  | 6  | (+5 %) | 0 |
|                        | 12 |  | pmtr515eb  | 7  | (+5 %) | 0 |
| 36 MHz-                | 12 |  | pmtr515erm | ++ | (+5 %) | 0 |
|                        | 12 |  | pmrwd145   | o  | (+5 %) | 0 |
| 125kHz                 | 12 |  | pmpcr125   | 9  | (+5 %) | 0 |
| 13.56MHz               | 12 |  | pmmfr135   | 6  | (+5 %) | 0 |
| er-Leser               | 12 |  | pmac9400   | 6  | (+5 %) | 0 |
| 12 mit 1443-           | 12 |  | pmpcr310u1 | ++ | (+5 %) | 0 |
| iertes 3,5" (standard) | 12 |  | pmtr4030rd | 9  | (+5 %) | 0 |
| Hz-Tags                | 12 |  |            |    | (+5 %) | 0 |

Promag GS2000

- Mobile torch-sized RFID data collection device
- Saves up to 14,320 entries
- Impact-resistant metal housing
- EM4102-compatible transponder
- 100,000 scans for each battery charge

The Promag GS2000 is an RFID terminal for mobile registration of 125 kHz, EM standard transponders. It is especially suited for time clocks, stock-taking, industrial data collection, quality control, route and work process control, measuring manufacturing time, etc. Due to excellent workmanship and its weather-resistance (operation temperature down to -10 °C), the terminal is the perfect choice for outdoor use. Drops have no impact on the GS2000 at all because of its metal housing. These mobile terminals come in handy wherever RFID transponders do not require direct processing.

The device is IP66 compliant spray-water-resistant and water-repellent. Read distance to the transponder is approximately 3-4 centimetres. A correct read is indicated both acoustically and visually. The GS2000 is available as USB or serial (RS232) version – integration into existing systems is made easy.

Even inexperienced personnel can set up these devices after a few step at the PC: a charger is connected to the USB port of your computer – totally independent of external power supplies. Windows starts the installation automatically – you only need to enter the driver source (the provided CD). After driver installation the system creates a virtual com port for data queries. Then the device is ready to use. Use the included GS2000 software monitor for configuration and protect it with a password against unauthorised use. Choose the correct COM port for your GS2000 and allocate a device ID to the



terminal to distinguish it from other connected terminals. One click and you transfer all collected data to a specified directory. The transferred database consists of device ID, transponder ID, date and time. As long as no special file names are specified for the report, the files are saved under the current date. After data transmission, users have the options of automatic deletion of the data, time synchronisation, or device shutdown. Users can use a single click to display the amount of saved entries on the GS2000.

The software package includes a second software application called »Guard-Tour-Utility« - use it to allocate transponder IDs to names in the software (e.g. ID 12345=warehouse, ID 6789=reception, etc.). Transponders that already have a name allocated to their ID are shown with their name instead of their ID number. On request users can use the software to compile a report on respective transponders. The memory of the GS2000 can hold over 14,300 entries. The device is powered with a C alkaline battery (1.5 V), which can last for at least 100,000 scans.

Promag PCR- /MFR-120

- Compact RFID reader with display
- For mobile time recording solutions
- Reads EM-compatible transponders
- Stores up to 8,192 entries
- Backlight display

The new Promag PCR-120 for mobile time recording or personal identification solutions – especially for guard-duty, construction sites, etc. Unlike conventional hardware that is used in fixed installation or desktop computers, the PCR-120 can be used for virtually any mobile application, such as for projects and special events. Naturally, it can also be used for industrial purposes, on construction sites or for home-office time recording – the compact, low-weight PCR-120 offers high mobility and flexibility.

In order to fulfil your requirements with the highest degree of flexibility, choose from portable readers for various standards: incorporating the same design used for the MSR-120 magnetic card reader with the difference that it reads RFID transponders at 125 kHz (EM technology) instead of magnetic stripe cards. An RFID reader for data collection with high frequency range is also available: The MFR-120 reads transponder serial numbers and RFID tags at 13.56 MHz using the Mifare/Felicia standard. The device is easily integrated into any application and available with either RS232 or USB interface.

Every scan is accompanied by an acoustic and visual confirmation. After each read process the transponder data is displayed on the 101x76 pixel display of the device. Use its four navigation keys to



control the device, go through data entries or to delete entries. This always includes status information on the total amount of data entries, date and time. Whenever you want to transfer your collected data to the PC, a simple press of the button will suffice. You will have an overview of all data entries instantly. Consequently, you choose how to proceed after transferring the data – you either delete all old entries in the device or keep them. A large 512KB memory allows up to 8,192 entries that are processed with the supplied »Monitor« software application.

Similar to the MSR-120, the PCR-120 is password-protected against unauthorised access. Use the setup software on the provided CD to configure date, date format, time, interface and backlight of the reader.

Long operation and high reliability are provided by the use of conventional 1.5V size AAA batteries.

Promag MSR-120

- Mobile magnetic stripe reader with display
- Saves up to 2,048 entries
- Reads all three tracks
- Backlight
- Easy integration through RS232 or USB

The MSR-120 is a mobile magnetic stripe reader with integrated display. This reader is an excellent choice for mobile data collection of EC, credit and magnetic cards of all kinds.



A normal AAA battery provides power to the device, which is ready-to-use with the press of the button. To transfer the data to a PC, simply connect it using a USB or RS232 cable. MSR-120 is a password protected device – unauthorized access is not possible. Use the setup software in the included CD to configure date, date format, time, interface and backlight of the reader.

Whenever you want to transfer your collected data to the PC, a simple press of the button is enough. All data entries are displayed in order, and for every entry you will find information from three different tracks successively. Its memory can hold up to 2,048 data entries before any data has to be transferred to a computer. Every scan is accompanied by an acoustic and visual confirmation. Use the four navigation keys to control the device, scroll through data entries or delete them. After each scan, the magnetic stripe data is displayed on the device. This includes continuous status information regarding the total number of data entries, date and time.

Information



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Promag FAT800

- Desktop network terminal for RFID data collection
- For EM compatible transponders
- High-contrast LCD display
- Programmable keypad
- Serial interface for receipt printers



The Promag FAT-800 network terminal is a combination device for new areas in cashless billing systems and for integration as a safety control terminal into production processes. It reads EM compatible transponder cards. Users simply pull the 125 kHz cards through the horizontal slot at the FAT-800 head and enter an additional PIN (if required). This variable combination of card and PIN verification offers a wide range of applications and high security at the same time.

Use the terminal as a desktop device or install it on the wall. If you install the device in companies, government offices or university canteens, you can offer cashless payments of orders and direct online billing. Optional PIN verification for payments is available for all security criteria: twenty blank keys on the ergonomically designed keypad can be programmed freely using the supplied software. You individually configure any positions on the keypad. The keys feature transparent caps. You easily remove the caps in order to label the keys with small printed pieces of paper.

A fast 10BaseT Ethernet interface offers network integrations of any number of terminals and consequently realises real-time data exchange. Data is transferred over TCP/IP in ASCII format. A high-contrast display shows any read data or previously configured information in 2x16 characters to the user. If required, a receipt printer can be connected to the FAT-800's serial port to provide users with a voucher.

Extensive documentation and configuration software are supplied with the FAT-800.

RFID-Transponder and Accessories

| Name             | Frequency | Standard   | Memory | Features               | Shape       | Dimensions/<br>Thickness | PU* | Item<br>number |
|------------------|-----------|------------|--------|------------------------|-------------|--------------------------|-----|----------------|
| Disc Tag         | 125 kHz   | EM4102     | 64 bit | LF, Read Only/fixed ID | Round       | Ø 50mm/2.0mm             | 25  | tag50a         |
| Disc Tag         | 125 kHz   | EM4102     | 64 bit | LF, Read Only/fixed ID | Round       | Ø 25mm/2.0mm             | 25  | tag25b         |
| Disc Tag         | 125 kHz   | EM4102     | 64 bit | LF, Read Only/fixed ID | Round       | Ø 22mm/2.0mm             | 25  | tag22b         |
| Disc Tag         | 125 kHz   | EM4150     | 64 bit | LF, rewritable         | Round       | Ø 50mm/2.0mm             | 25  | gitag1q50a     |
| Disc Tag         | 125 kHz   | EM4150     | 64 bit | LF, rewritable         | Round       | Ø 25mm/2.0mm             | 25  | gitag1q25      |
| Disc Tag         | 125 kHz   | EM4150     | 64 bit | LF, rewritable         | Round       | Ø 22mm/2.0mm             | 25  | gitag1q22      |
| Transponder card | 125 kHz   | EM4102     | 64 bit | LF, Read Only/fixed ID | Card        | 54x85mm/0.8mm            | 25  | cfr01          |
| Transponder card | 125 kHz   | EM4102     | 64 bit | LF, rewritable         | Card        | 54x85mm/0.8mm            | 25  | gitag1q-01     |
| Transponder card | 13.56 kHz | ISO14443-A | 1 kb   | LF, Read Only/fixed ID | rectangle   | 27x60mm/7.7mm            | 25  | pmmpag61       |
| Keyring pendant  | 125 kHz   | EM4102     | 64 bit | LF, Read Only/fixed ID | Drop-shaped | 40x25mm/6.5mm            | 25  | tag25kb        |
| Keyring pendant  | 125 kHz   | EM4150     | 64 bit | LF, rewritable         | Drop-shaped | 40x25mm/6.5mm            | 25  | gitag1q25k     |
| Keyring pendant  | 125 kHz   | EM4102     | 64 bit | LF, Read Only/fixed ID | Drop-shaped | 40x25mm/6.0mm            | 25  | tag20kb        |
| Keyring pendant  | 125 kHz   | EM4150     | 64 bit | LF, rewritable         | Drop-shaped | 40x25mm/6.0mm            | 25  | gitag1q20k     |
| Keyring pendant  | 13.56 kHz | ISO14443-A | 1 kb   | LF, Read Only/fixed ID | Drop-shaped | 41x31mm/9.0mm            | 25  | pmmtag63       |

LF = Low frequency, \* Packaging unit

